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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A method of adaptively controlling an antenna pattern of a mobile wireless communications device in a packet-switched wireless ad-hoc communications network, the method comprising the steps of:

receiving an electromagnetic signal over the packet-switched wireless ad-hoc communications network by a mobile wireless communication device having a receive antenna pattern;

determining if the electromagnetic signal is from an intended or unintended source; and

adapting the receive antenna pattern if the electromagnetic signal is from an unintended source.

2. (Original) The method of claim 1 wherein the determining step further comprises comparing an identifier of the source included in the electromagnetic signal to a list of identifiers associated with intended sources to determine that the source is an intended source.

3. (Original) The method of claim 1 wherein the determining step further comprises comparing an identifier of the source included in the electromagnetic signal to a list of identifiers associated with unintended sources to determine that the source is an unintended source.

4. (Original) The method of claim 1 further comprising the step of weighting the received electromagnetic signal.

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5. (Original) The method of claim 4 wherein the adapting step further comprises creating a null in the receive antenna pattern at a location determined in response to the location of the unintended source.

6. (Original) The method of claim 1 wherein an unintended source is a cordless telephone.

7. (Original) The method of claim 1 wherein an unintended source is a node in the network.

8. (Currently Amended) An apparatus for adaptively controlling an antenna pattern of a mobile wireless network device in a packet-switched wireless ad-hoc communications network, the apparatus comprising:

first and second mobile antenna elements each receiving an electromagnetic signal from a source over the packet-switched wireless ad-hoc network and forming a receive antenna pattern;

a verification module, in communication with the antenna elements, receiving the signal from the antenna elements and verifying whether the source of the signal is an intended or unintended source; and

a controller in communication with at least one of the antenna elements and with the verification module to adaptively control the receive antenna pattern in response to a determination that the source of the electromagnetic signal is an unintended source.

9. (Original) The apparatus of claim 8 wherein the controller comprises a weighting module having a complex weight associated therewith in communication with at least one antenna element and a determination module in communication with the weighting module and the verification module, the determination module determining the complex weight used to generate a null in the receive antenna pattern at a location determined in response to the location of the unintended source.

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10. (Original) The apparatus of claim 8 wherein the electromagnetic signal contains information indicative of a specific network protocol, the information being used to verify the source of the signal as an intended or unintended source.

11. (Original) The apparatus of claim 8 further comprising a combination module in communication with the first and second antenna elements to combine the received signal from each of the antenna elements.

12. (Original) The apparatus of claim 8, wherein the apparatus is a wireless network card.

13. (Original) The apparatus of claim 8, wherein the unintended source is a cordless telephone.

14. (Original) The apparatus of claim 8, wherein the unintended source is a node in the network.

15. (Currently Amended) In a packet-switched wireless ad-hoc communications network, a method for use by a mobile wireless communication device having a plurality of antennas to control a direction of communication over the network, the method comprising the steps of:

cooperatively producing by the plurality of antennas of the mobile wireless communication device an antenna pattern for exchanging electromagnetic signals over the packet-switched wireless communications network; and

adapting the antenna pattern produced by the plurality of antennas in response to an electromagnetic signal received over the packet-switched wireless ad-hoc communications network to control a direction of subsequent communication over the network.

16. (Currently Amended) The method of claim 44 15, wherein the antenna pattern is

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a receive antenna pattern.

17. (Currently Amended) The method of claim 44 15, wherein the adapting of the antenna pattern reduces noise in subsequently received electromagnetic signals.

18. (Currently Amended) The method of claim 44 15, wherein the adapting of the antenna pattern increases a signal-to-noise ratio of transmitted electromagnetic signals.

19. (Currently Amended) The method of claim 44 15, wherein the adapting of the antenna pattern reduces an effect of interference from an interfering source.